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PATENT ABSTRACTS OF JAPAN

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(71) Applicant: **TOYOTA AUTOM LOOM WORKS LTD**

(72) Inventor: **IZAWA MASAO**

(54) **CARGO HANDLING CONTROL DEVICE FOR BATTERY TYPE INDUSTRIAL VEHICLE**

rotating speed..

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(57) Abstract:

PURPOSE: To drive a hydraulic pump driving motor at the appropriate rotating speed in response to a load without providing a rotating speed sensor, and to prolong the charged period of a battery.

CONSTITUTION: A hydraulic pump 14 for supplying the operating oil to a lift cylinder 4 and a tilt cylinder 9 is driven by a motor 16. A control device 24 for controlling the drive of the motor 16 is provided with a CPU, a program memory and a working memory. In the program memory, the control map for displaying the relation between the current value flowing in the motor 16 and the rotating speed of the motor 16 in response to the duty ratio and the map for obtaining the target rotating speed of the motor 16 in response to the load in the case where the tilt operation is performed are stored. The control device 24 judges the load condition on the basis of the current value detected by a current sensor 32, and sets the target rotating speed of the motor 16 appropriate for the load condition, and controls the drive of the motor 16 at the target

